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I
MAGERY
A
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PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL RECORDS COPY

STATUS OF NORTH VIETNAMESE RAILROADS

X1

DECLASS REVIEW by NIMA/DOD

REPORT NO. 30
CIA/PIR 75095

DATE FEB. 1967

GROUP 1
Excluded from automatic
downgrading and declassification

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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DDI IMAGERY ANALYSIS STAFF

PIR 75095

P R E F A C E

This report summarizes significant items of photo intelligence relating to the North Vietnamese railroad system which has been developed from available photography (received by the CIA Imagery Analysis Staff) during the period indicated on the cover. This report is intended to provide a comprehensive view of the railroad system and does not necessarily reflect the most recent status changes as reported by pilots' reports or field photo intelligence cables.

The railroad system has been divided into 5 major lines: the Hanoi/Lao Cai Line, the Hanoi/Dong Dang Line, the Hanoi/Haiphong Line, the Hanoi/Dong Hoi Line and the Thai Nguyen Line (Figure 1). Annotated maps and photos are used to show the status of each line.

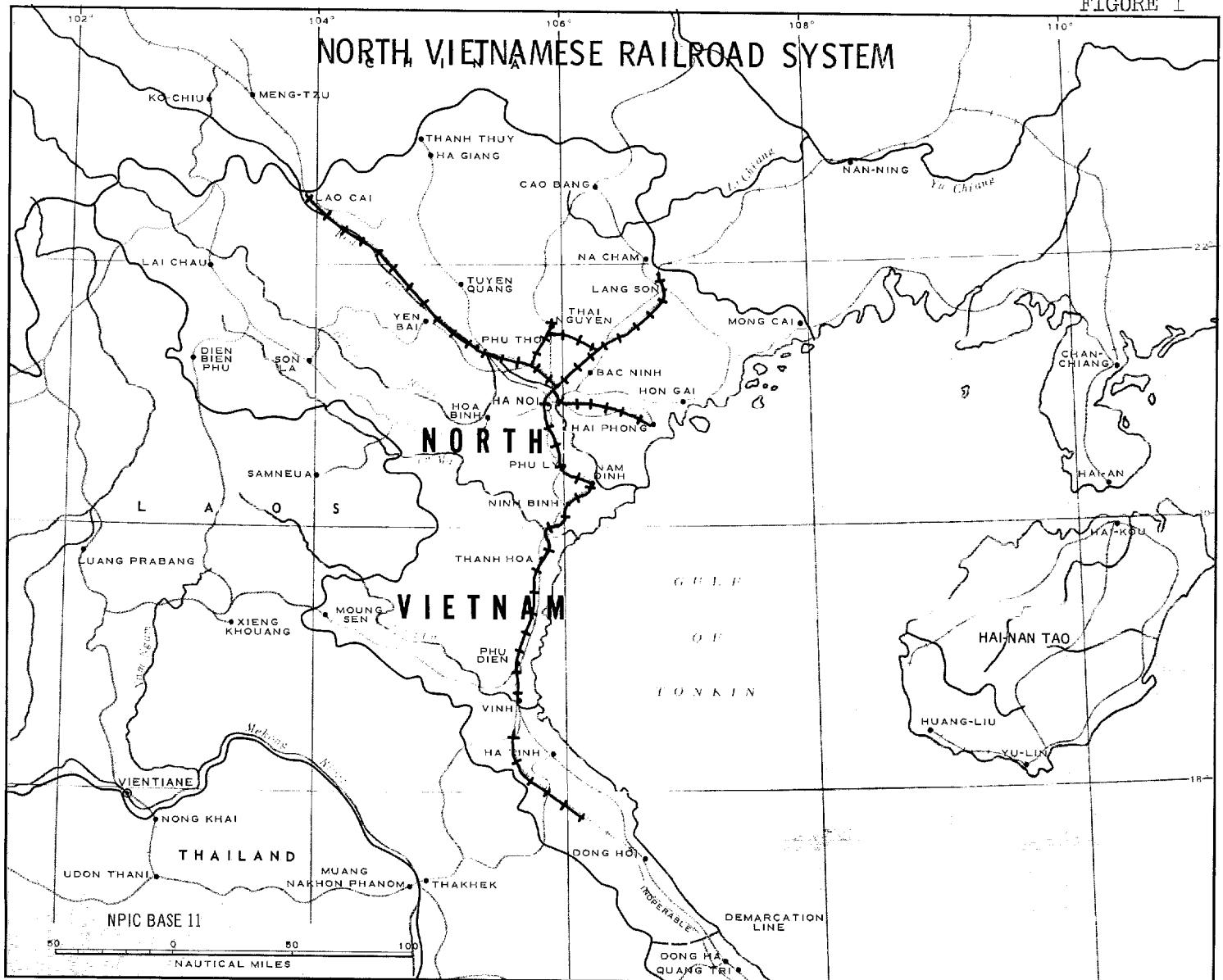
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PIR 75095
FIGURE 1



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SUMMARY

That portion of the Hanoi/Dong Dang Rail Line covered by interpretable photography was open to through traffic. Three bridge interdictions were noted on the Hanoi/Dong Hoi Rail Line, and 1 bridge interdiction was noted on the Thai Nguyen Rail Line.

CONTENTS

Hanoi/Lao Cai Rail Line	Page	4
Hanoi/Dong Dang Rail Line		6
Hanoi/Dong Hoi Rail Line		8
Hanoi/Haiphong Rail Line		19
Thai Nguyen Rail Line		20

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FIR 75095
FIGURE 2

KEY

All maps within this report have been based on the following manner:

- Main bridge border - now serviceable.
- By-pass bridge or bridge serviceable.
- Main bridge unserviceable.
- ▲ All bridge crossing facilities unserviceable.
- ▲ By-pass bridge under construction.
- Original bridge has not been damaged or destroyed based on available photography.

Extent of rail line covered by available, integratable photography.

Line of interest. Turn to the item number within the section for further information.

All intelligence developed within the reporting period is printed in red, other intelligence is printed in black.

Description of bridges numbered 1 through 76 can be found in CHAPTER 4000, August 1965.

HANOI - LAO CAI
RAILROAD

0 5
STATUTE MILES

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STATUS OF OBSERVED BRIDGES
HANOI/LAO CAI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status*</u>
25X1	32 Lang Kay Railroad Bridge NW over Ngoi Key [REDACTED]	[REDACTED]	S
25X1	35 Lang Kay Railroad Bridge over Ngoi Chuc [REDACTED]		S
25X1	37 Lang Kay Railroad Bridge S over Nam Linh [REDACTED]		S
25X1	39 Lang Khay Railroad Bridge over Ngoi Kay [REDACTED]		S
25X1	41 Khe Se Railroad Bridge S over stream [REDACTED]		S
25X1	43 Trai Hut Railroad Bridge NW over Ngoi Cho [REDACTED]		S
25X1	44 Trai Hut Railroad Bridge over Nam Lam [REDACTED]		S
25X1	45 Som Dong Dep Railroad Bridge over Nam Muoi [REDACTED]		S
25X1	47 Lang Quach Ngoai Railroad Bridge N over Ngoi Vai [REDACTED]		S
25X1	48 Lang Quach Ngoai Railroad Bridge over Ngoi Quach [REDACTED]		S
25X1	51 Pho Chang Railroad Bridge over Ngoi Trang [REDACTED]	S	
25X1	55 Pho Hop Railroad Bridge over Ngoi Hop [REDACTED]	S	
25X1	67 Phu Tho Railroad Bridge E over stream [REDACTED]	S	

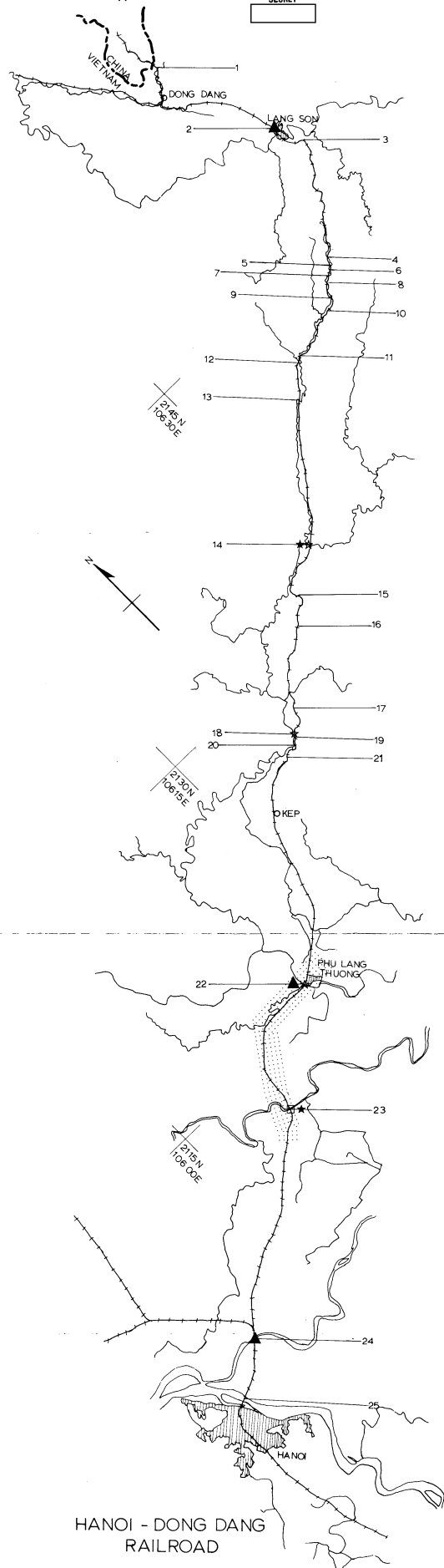
* All data is compiled from photography dated [REDACTED] or thereafter.
Symbols: S-Serviceable; U-Unserviceable

25X1

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FIR 75095
FIGURE 3



KEY

- All maps within this report have been keyed in the following manner:
- Main bridge located - new serviceable.
 - Bypass bridge or bridge serviceable.
 - Main bridge unserviceable.
 - All bridges crossing section unserviceable.
 - Bypass bridge under construction.
 - Original bridge has not been damaged or destroyed based on available photography.
 - 2 - General of rail line assessed by available, intelligence photography.
 - Items of interest. Item to the item number within the section for further information.
- All intelligence developed within the reporting period is printed in red, other intelligence is printed in black.
- Description of Bridges numbered 1 through 25 can be found in CIA-PR 8888, August 1965.

HA NOI - DONG DANG
RAILROAD

0 5 10
STATUTE MILES

RAILROAD
STREAMS
BRIDGE NO. & LOCATION

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25X1

DDI IMAGERY ANALYSIS STAFF

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STATUS OF OBSERVED BRIDGES
HANOI/DONG DANG RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status*</u>	
25X1	22 Bac Giang Railroad and Highway Bridge over Song Thuong [REDACTED]	[REDACTED]	S	
25X1	23 Dap Cau Railroad and Highway Bridge over Song Cau [REDACTED]		U	25X1
25X1	23 Dap Cau Railroad Bridge over Song Cau [REDACTED]		S	

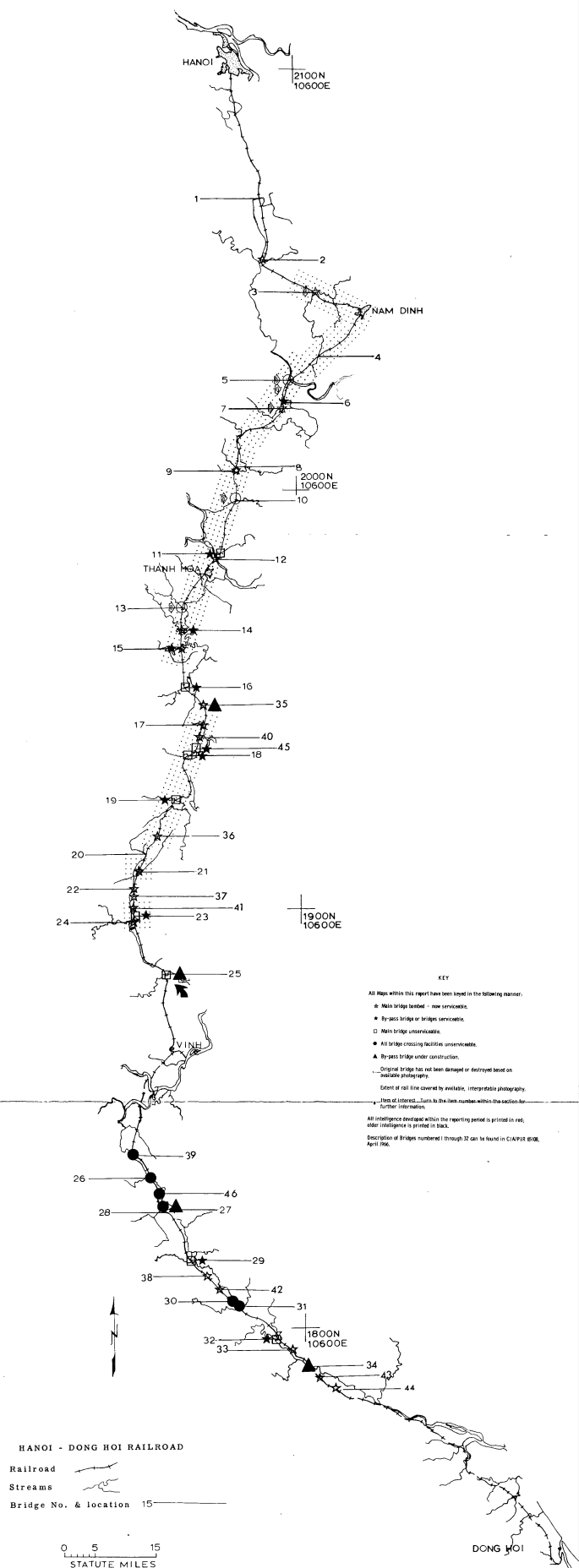
25X1

* All data is compiled from photography dated [REDACTED] or thereafter.
Symbols: S-Serviceable; U-Unserviceable

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PIR 75095
FIGURE 4

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25X1

DDI IMAGERY ANALYSIS STAFF

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STATUS OF OBSERVED BRIDGES
HANOI/DONG HOI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status*</u>	
25X1	3 Cao Duong Railroad and Highway Bridge over canal [REDACTED]	[REDACTED]	S	25X1
25X1	5 Ninh Binh Railroad and Highway Bridge over Song Day [REDACTED]		U	
25X1	5 Ninh Binh Railroad Bridge over Song Day [REDACTED]		U	
	5 Ninh Binh Railroad Pontoon Bridge		U	
25X1	6 Ha Thon Railroad and Highway Bridge over Song Vac [REDACTED]		S	
25X1	7 Ly Nhan Railroad and Highway Bridge over stream [REDACTED]		S	
25X1	9 Yen Xa Railroad and Highway Bridge over stream [REDACTED]		S	
25X1	10 Dong Phong Thuong Railroad and Highway Bridge over Song Len [REDACTED]		U	
25X1	10 Dong Phong Thuong Railroad Bridge S over Song Len [REDACTED]		U	
25X1	10 Dong Phong Thuong E Railroad By-Pass Bridge [REDACTED]		U	
25X1	11 Phuong Dinh Railroad and Highway Bridge over Lach Truong [REDACTED]		U	
25X1	11 Phuong Dinh Railroad Bridge over Lach Truong [REDACTED]		S	
25X1	12 Thanh Hoa Railroad and Highway Bridge over Song Ma [REDACTED]		S	
25X1	13 Thien Linh Dong Railroad Bridge over Hoang Giang [REDACTED]	U		

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DDI IMAGERY ANALYSIS STAFF

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status *</u>	
25X1	13 Thien Linh Dong Railroad Bridge SW over River [REDACTED]	[REDACTED]	U	25X1
25X1	14 Thinh Lac Railroad Bridge over stream [REDACTED]		S	
25X1	14 Thinh Lac Railroad Bridge SSW over stream [REDACTED]		S	
25X1	15 Truong Quang Tien Railroad Bridge over Song Yen Tr [REDACTED]		U	
25X1	15 Truong Quang Tien Railroad Bridge E over River [REDACTED]		S	
25X1	16 Thi Long Railroad Bridge over Suoi Cay Gang [REDACTED]		U	
25X1	16 Thi Long Railroad Bridge SW over Suoi Cay Gang [REDACTED]		S	
25X1	17 Phu Quat Railroad Bridge over stream [REDACTED]		S	
25X1	18 Dia Thuy Railroad Bridge SW over Khe Dua [REDACTED]		U	
25X1	18 Dia Thuy Railroad Bridge NW over Khe Dua [REDACTED]		S	
25X1	19 Qui Vinh Railroad Bridge No. 1 over Song Hoang Mai [REDACTED]	U		
25X1	19 Qui Vinh Railroad Bridge No. 2 over Song Hoang Mai [REDACTED]	S		
25X1	19 Qui Vinh Railroad Bridge No. 3 over Song Hoang Mai [REDACTED]	U		
25X1	19 Qui Vinh Railroad Bridge No. 4 over Song Hoang Mai [REDACTED]	S		
25X1	21 Long Ngoc Railroad and Highway Bridge over unknown barrier [REDACTED]	S		

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DDI IMAGERY ANALYSIS STAFF

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status*</u>	
25X1	23 Dien Chau Railroad Bridge over Song Bang [REDACTED]	[REDACTED]	U	25X1
25X1	23 Dien Chau Railroad Bridge E over Song Bang [REDACTED]		S	
25X1	25 Tam Da Railroad and Highway Bridge over Song Cua Lo [REDACTED]		U	
25X1	26 Trai Hoi Railroad and Highway Bridge over Ngan Sau [REDACTED]		U	
25X1	27 Xom Hoai Railroad and Highway Bridge over Rao No [REDACTED]		U	
25X1	35 Thi Long Railroad Bridge SE over stream [REDACTED]		S	
25X1	36 Tho Trang Railroad Bridge over stream [REDACTED]		S	
25X1	39 Quang Te Railroad Bridge over Khe Hac Giang [REDACTED]		U	
25X1	40 Qui My Railroad Bridge over stream [REDACTED]		S	
25X1	41 Tu My Railroad Bridge		S	
25X1	43 Dong Ca Thon Railroad and Highway Bridge over Cai Khe [REDACTED]	S		
25X1	45 Phu Cu Railroad Bridge N over stream [REDACTED]	U		

* All data is compiled from photography dated [REDACTED] or thereafter.
 Symbols: S-Serviceable; U-Unserviceable

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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 1: Hanoi/Dong Hoi Rail Line

NAME : Thien Linh Dong RR. Bridge

BE 25X1

COORDINATES : 19 43N - 105 42E, XG748815

PHOTO REFERENCE

25X1

MAP REFERENCE : JOG (A) 1501, NE 48-3

The multi-span deck beam Thien Linh Dong RR. Bridge has been destroyed. One span and 1 abutment of the 4-span, deck-beam by-pass bridge () have been destroyed, and a second by-pass bridge is still under construction. There are no serviceable rail bridges at this river crossing.

25X1



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[REDACTED]

25X1

DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 2: Hanoi/Dong Hoi Rail Line

NAME : Dong Phong Thuong RR. Bridge S

BE : [REDACTED]

COORDINATES : 19 58N - 105 49E, WH862078

PHOTO REFERENCE : [REDACTED]

25X1

MAP REFERENCE : JOG (A) 1501, NE 48-3

The 6-span, deck-beam Dong Phong Thuong Railroad Bridge S has been bombed and is unserviceable. Four spans, 2 piers, and 1 abutment have been destroyed, and 1 span and 2 piers have been severely damaged. Both approaches have been interdicted. There are no serviceable rail bridges at this river crossing.

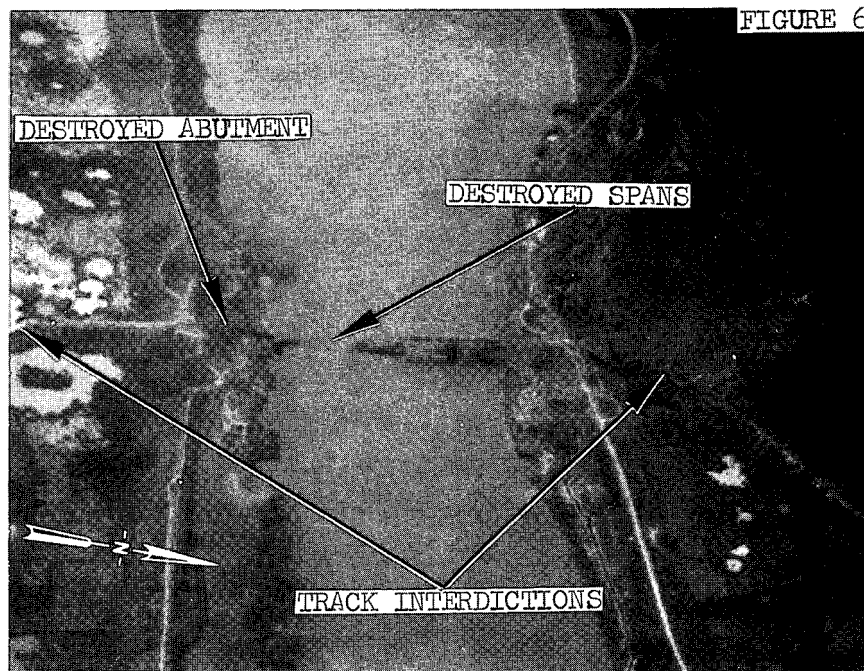


FIGURE 6

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[REDACTED]

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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 3: Hanoi/Dong Hoi Rail Line

NAME : Ly Nhan RR. Bridge

25X1

BE

:

COORDINATES : 20 09N - 105 56E, XH000310

PHOTO REFERENCE

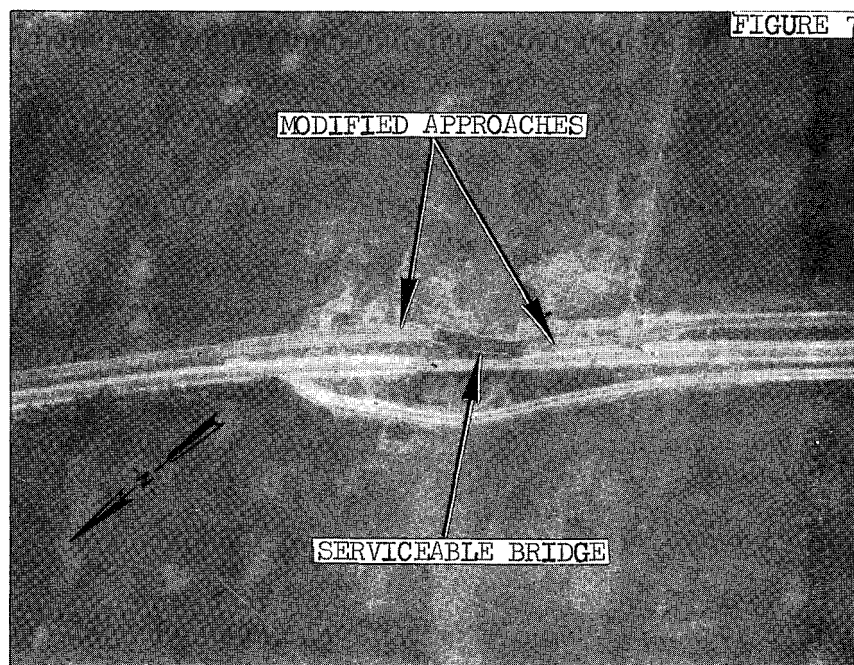
:

MAP REFERENCE

: JOG (A) 1501, NF 48-15

25X1

The single-span, half-through truss Ly Nhan RR. Bridge has been repaired and is serviceable. The approaches have been altered to conform with the realigned span.



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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 4: Hanoi/Dong Hoi Rail Line

NAME : Ninh Binh RR. Yard

BE :

COORDINATES : 20 15N - 105 59E, WH028396

PHOTO REFERENCE :

MAP REFERENCE : JOG (A) 1501, NF 48-15

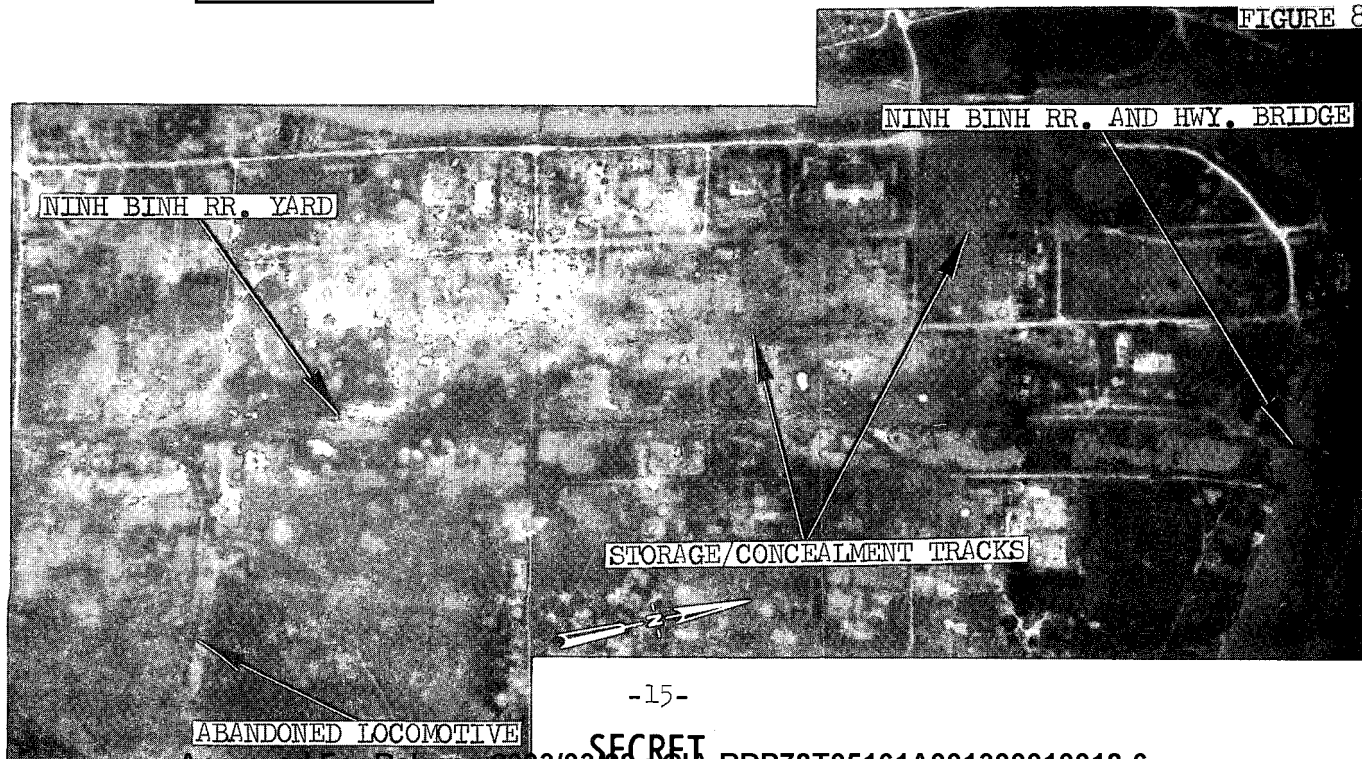
25X1

The 3-track Ninh Binh Railroad Yard has been bombed and is unserviceable. At least 4 large craters are located at the northern end of the yard, and 1 at the southern end. All through tracks are interdicted; however, the choke points remain intact.

Several partially concealed tracks have been laid along the streets of the city of Ninh Binh. Some storage materials have been observed adjacent to these tracks.

Of the 23 pieces of rolling stock located in the main yard, 10 are damaged/destroyed. Five of the 72 pieces of rolling stock located on the storage/concealment tracks are damaged/destroyed. One locomotive is abandoned on a siding on the by-pass track leading to the Ninh Binh Railroad Bridge - see Item of Interest No. 5).

FIGURE 8



-15-

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ITEM OF INTEREST NO. 5: Hanoi/Dong Hoi Rail Line

NAME : Ninh Binh RR. Bridge

25X1

BE

:

COORDINATES : 20 15N - 105 59E, XH039400

PHOTO REFERENCE

:

25X1

MAP REFERENCE

: JOG (A) 1501, NF 48-15

25X1

Two 40' deck-beam spans and the lift span of the 24-span Ninh Binh Railroad Bridge have been destroyed (Figure 9). The unserviceable main bridge () has incurred further damage (Figure 10): 1 additional span has been dropped. The adjacent railroad pontoon bridge remains unserviceable with possible additional damage to 1 pontoon section and to the approaches. Both railroad ferry slips are intact.

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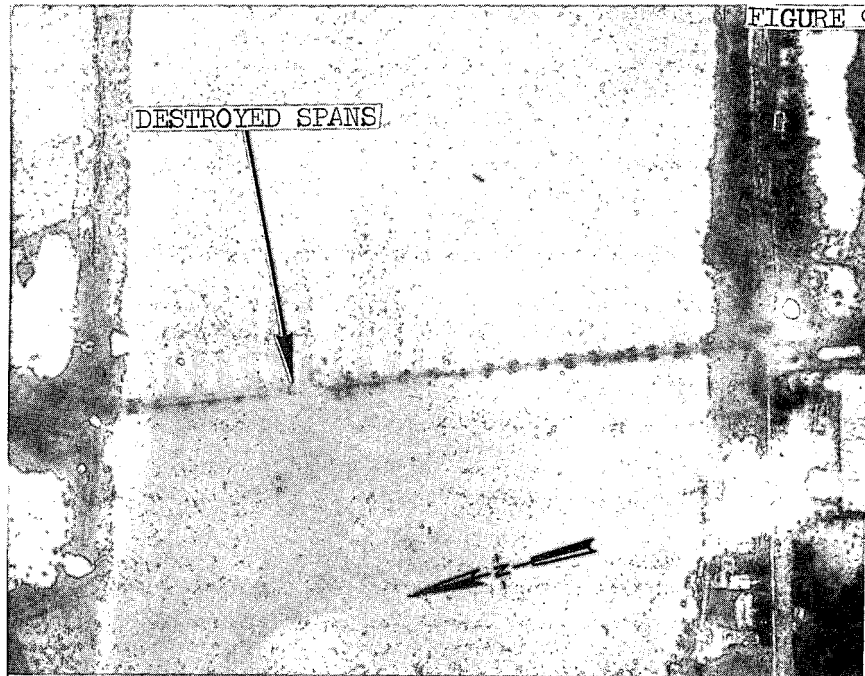
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ITEM OF INTEREST NO. 6: Hanoi/Dong Hoi Rail Line

NAME : Cao Duong RR. Bridge

BE

25X1

:

COORDINATES : 20 28N - 106 02E, XH081647

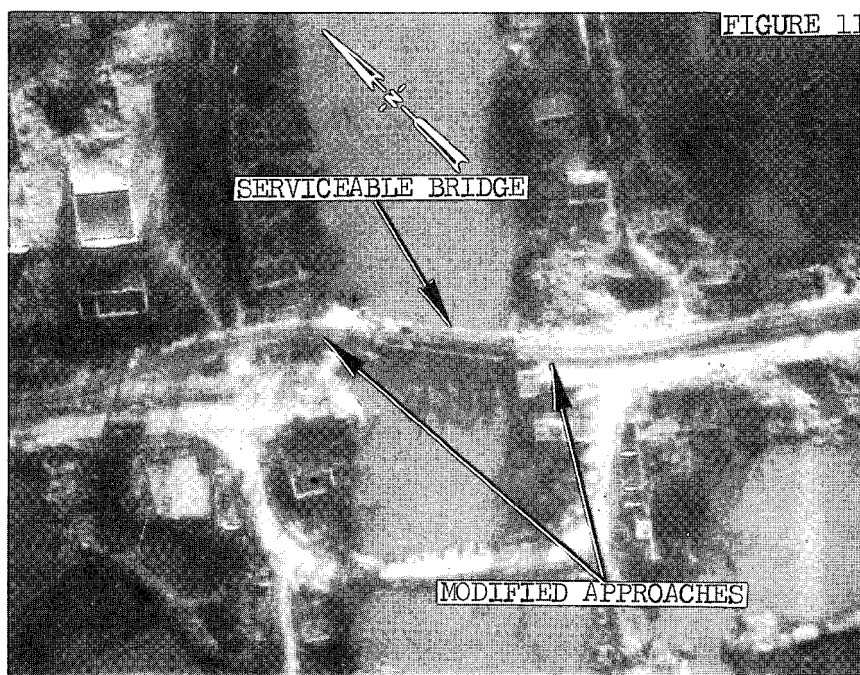
PHOTO REFERENCE

:

25X1

MAP REFERENCE : JOG (A) 1501, NF 48-15

The Cao Duong Railroad Bridge is now serviceable. A deck-beam bridge has been constructed across the heavily damaged, partially dropped half-through truss span.



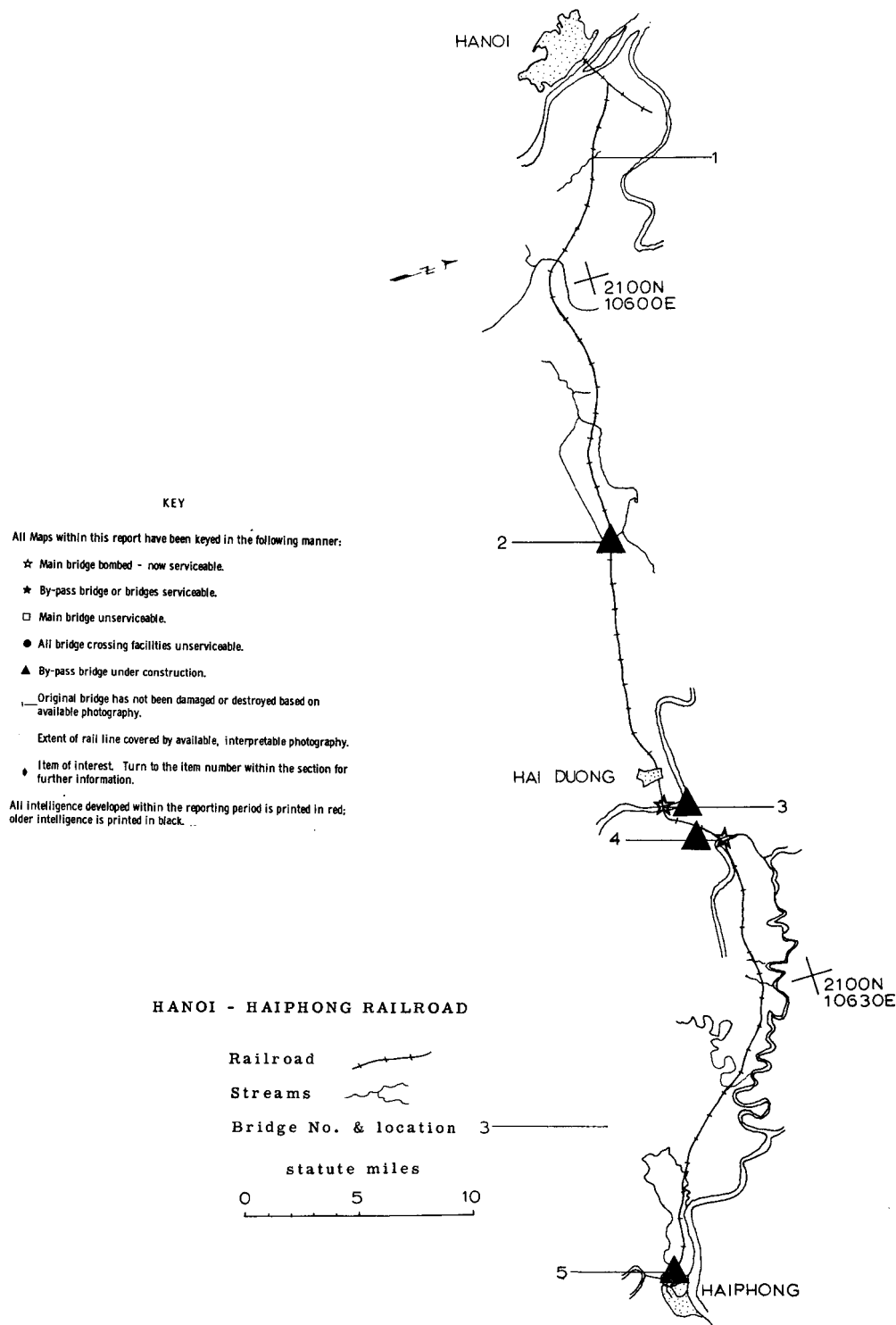
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PIR 75095
FIGURE 12

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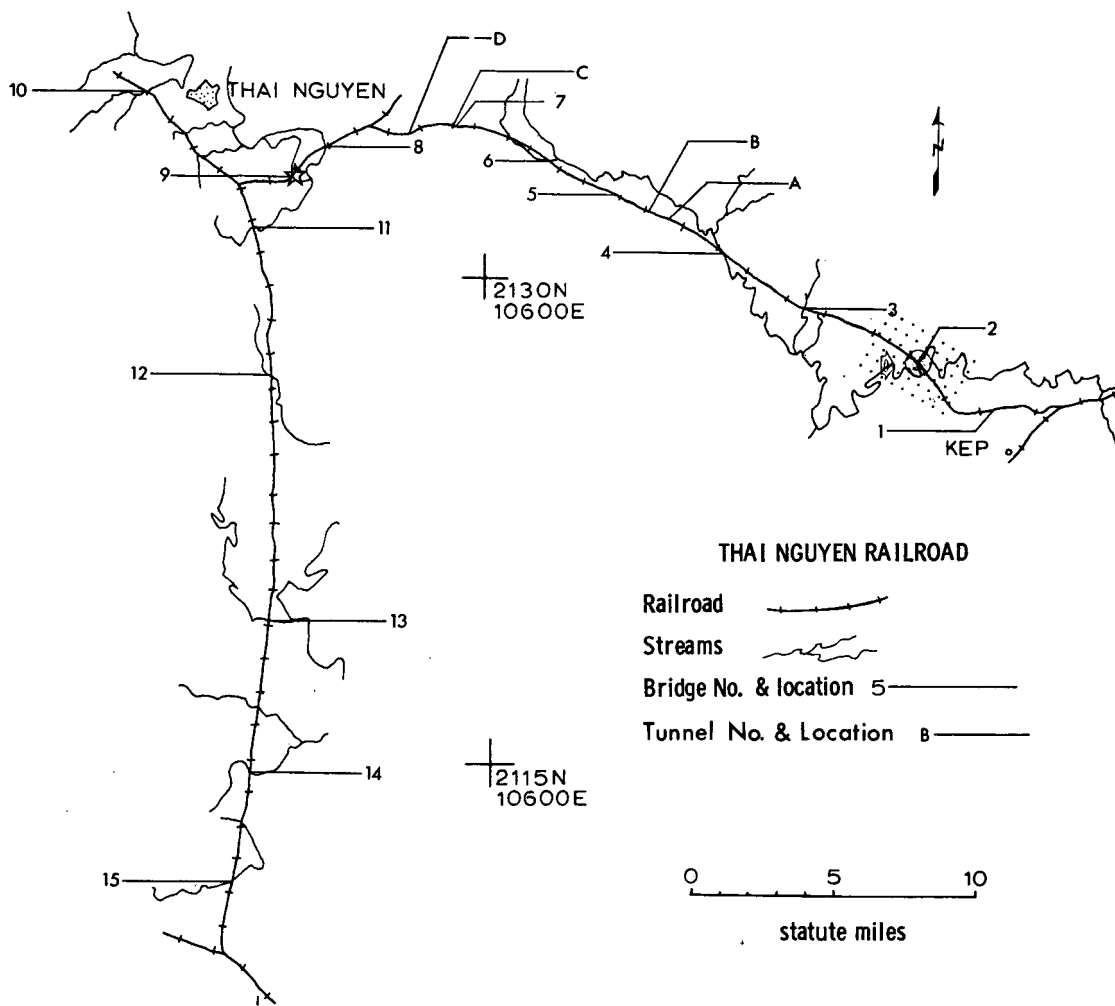
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FIGURE 13

KEY

All Maps within this report have been keyed in the following manner:

- ☆ Main bridge bombed - now serviceable.
- ★ By-pass bridge or bridges serviceable.
- Main bridge unserviceable.
- All bridge crossing facilities unserviceable.
- ▲ By-pass bridge under construction.
- Original bridge has not been damaged or destroyed based on available photography.
- Extent of rail line covered by available, interpretable photography.
- Item of interest. Turn to the item number within the section for further information.

All intelligence developed within the reporting period is printed in red; older intelligence is printed in black.



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STATUS OF OBSERVED BRIDGES
THAI NGUYEN RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status*</u>
2	Dong Muc Railroad Bridge over Song Thuong <input type="text"/>	<input type="text"/>	U
9	Lang Lau Railroad Bridge over Song Cau <input type="text"/>	<input type="text"/>	S

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* All data is compiled from photography dated or thereafter.
Symbols: S-Serviceable; U-Unserviceable

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ITEM OF INTEREST NO. 1: Thai Nguyen Rail Line

NAME : Dong Muc RR. Bridge

25X1

BE

:

COORDINATES : 21 27N - 106 14E, XJ282726

PHOTO REFERENCE

:

25X1

MAP REFERENCE

:

JOG (A) 1501, NF 48-11

One span of the 4-span probable deck-beam Dong Muc Railroad Bridge has been dropped (Figure 14). A replacement span under construction is located approximately 1450' NW of the bridge (Figure 15). Construction material is located between the replacement span and the bridge on probable small flat cars (not illustrated). The bridge is presently unserviceable.

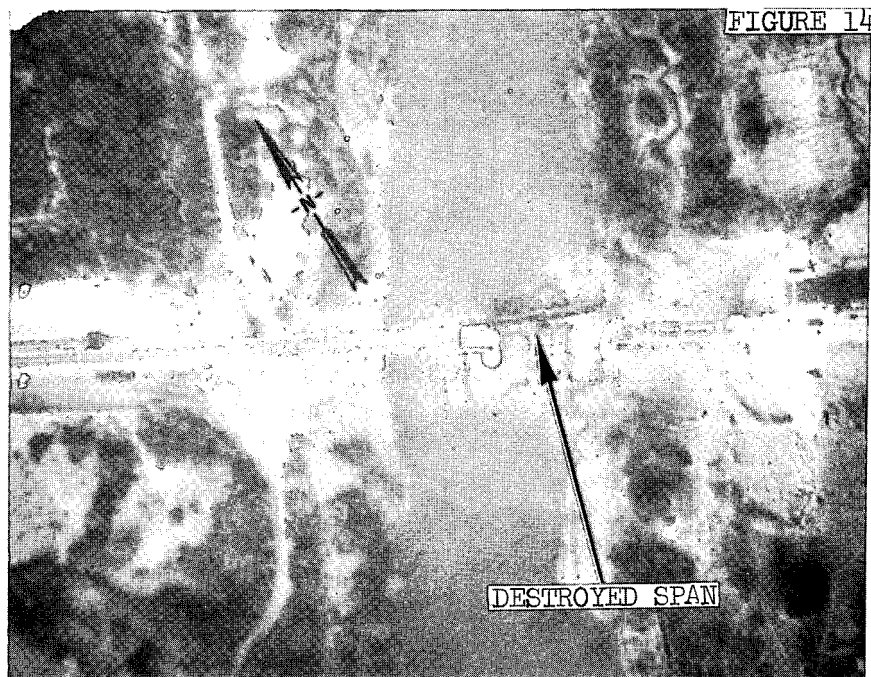
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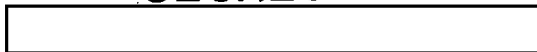
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